

Ying-Hao Chu

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345
papers

23,213
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145
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364
ext. papers

25,369
ext. citations

9.2
avg, IF

6.6
L-index

#	Paper	IF	Citations
345	Above-bandgap voltages from ferroelectric photovoltaic devices. <i>Nature Nanotechnology</i> , 2010 , 5, 143-728.7	28.7	1212
344	Electric-field control of local ferromagnetism using a magnetoelectric multiferroic. <i>Nature Materials</i> , 2008 , 7, 478-82	27	1099
343	Electrical control of antiferromagnetic domains in multiferroic BiFeO ₃ films at room temperature. <i>Nature Materials</i> , 2006 , 5, 823-9	27	1054
342	Conduction at domain walls in oxide multiferroics. <i>Nature Materials</i> , 2009 , 8, 229-34	27	1048
341	A strain-driven morphotropic phase boundary in BiFeO ₃ . <i>Science</i> , 2009 , 326, 977-80	33.3	956
340	Advances in the growth and characterization of magnetic, ferroelectric, and multiferroic oxide thin films. <i>Materials Science and Engineering Reports</i> , 2010 , 68, 89-133	30.9	501
339	Leakage mechanisms in BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2007 , 90, 072902	3.4	444
338	Photovoltaic effects in BiFeO ₃ . <i>Applied Physics Letters</i> , 2009 , 95, 062909	3.4	429
337	Electric modulation of conduction in multiferroic Ca-doped BiFeO ₃ films. <i>Nature Materials</i> , 2009 , 8, 485-93	27	426
336	Photoconductivity in BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2008 , 92, 091905	3.4	389
335	Electric-field-induced magnetization reversal in a ferromagnet-multiferroic heterostructure. <i>Physical Review Letters</i> , 2011 , 107, 217202	7.4	360
334	Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. <i>Nature Materials</i> , 2010 , 9, 309-14	27	344
333	Critical thickness and orbital ordering in ultrathin La _{0.7} Sr _{0.3} MnO ₃ films. <i>Physical Review B</i> , 2008 , 78,	3.3	329
332	Domain wall conductivity in La-doped BiFeO ₃ . <i>Physical Review Letters</i> , 2010 , 105, 197603	7.4	319
331	Interface ferromagnetism and orbital reconstruction in BiFeO ₃ -La(0.7)Sr(0.3)MnO ₃ heterostructures. <i>Physical Review Letters</i> , 2010 , 105, 027201	7.4	311
330	Deterministic control of ferroelastic switching in multiferroic materials. <i>Nature Nanotechnology</i> , 2009 , 4, 868-75	28.7	299
329	Self-Assembled Growth of BiFeO ₃ /CoFe ₂ O ₄ Nanostructures. <i>Advanced Materials</i> , 2006 , 18, 2747-2752	24	293

328	Suppression of octahedral tilts and associated changes in electronic properties at epitaxial oxide heterostructure interfaces. <i>Physical Review Letters</i> , 2010 , 105, 087204	7.4	288
327	Large field-induced strains in a lead-free piezoelectric material. <i>Nature Nanotechnology</i> , 2011 , 6, 98-102	28.7	271
326	Nanoscale control of exchange bias with BiFeO ₃ thin films. <i>Nano Letters</i> , 2008 , 8, 2050-5	11.5	254
325	Visualization of electrode-electrolyte interfaces in LiPF ₆ /EC/DEC electrolyte for lithium ion batteries via in situ TEM. <i>Nano Letters</i> , 2014 , 14, 1745-50	11.5	252
324	Microscopic origin of the giant ferroelectric polarization in tetragonal-like BiFeO ₃ . <i>Physical Review Letters</i> , 2011 , 107, 147602	7.4	248
323	Multiferroics and magnetoelectrics: thin films and nanostructures. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 434220	1.8	246
322	Nanoscale Domain Control in Multiferroic BiFeO ₃ Thin Films. <i>Advanced Materials</i> , 2006 , 18, 2307-2311	24	244
321	Domain Control in Multiferroic BiFeO ₃ through Substrate Vicinality. <i>Advanced Materials</i> , 2007 , 19, 2662-2666	24	216
320	Metalorganic chemical vapor deposition of lead-free ferroelectric BiFeO ₃ films for memory applications. <i>Applied Physics Letters</i> , 2005 , 87, 102903	3.4	216
319	Controlling magnetism with multiferroics. <i>Materials Today</i> , 2007 , 10, 16-23	21.8	214
318	Strain-induced polarization rotation in epitaxial (001) BiFeO ₃ thin films. <i>Physical Review Letters</i> , 2008 , 101, 107602	7.4	205
317	Dynamic conductivity of ferroelectric domain walls in BiFeO ₃ . <i>Nano Letters</i> , 2011 , 11, 1906-12	11.5	204
316	Nanoscale control of domain architectures in BiFeO ₃ thin films. <i>Nano Letters</i> , 2009 , 9, 1726-30	11.5	188
315	Interface control of bulk ferroelectric polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9710-5	11.5	187
314	Multiferroic BiFeO ₃ films: domain structure and polarization dynamics. <i>Phase Transitions</i> , 2006 , 79, 991-1017	10.17	185
313	Linear and nonlinear optical properties of BiFeO ₃ . <i>Applied Physics Letters</i> , 2008 , 92, 121915	3.4	183
312	Ferroelectric size effects in multiferroic BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2007 , 90, 252906	3.4	167
311	Electrically controllable spontaneous magnetism in nanoscale mixed phase multiferroics. <i>Nature Communications</i> , 2011 , 2, 225	17.4	140

310	Atomic-scale evolution of modulated phases at the ferroelectric-antiferroelectric morphotropic phase boundary controlled by flexoelectric interaction. <i>Nature Communications</i> , 2012 , 3, 775	17.4	135
309	Tunable metallic conductance in ferroelectric nanodomains. <i>Nano Letters</i> , 2012 , 12, 209-13	11.5	131
308	Flexible ferroelectric element based on van der Waals heteroepitaxy. <i>Science Advances</i> , 2017 , 3, e1700121	11.3	130
307	Nanoscale structure and mechanism for enhanced electromechanical response of highly Strained BiFeO ₃ thin films. <i>Advanced Materials</i> , 2011 , 23, 3170-5	24	130
306	Optical properties and magnetochromism in multiferroic BiFeO ₃ . <i>Physical Review B</i> , 2009 , 79,	3.3	130
305	Universal ferroelectric switching dynamics of vinylidene fluoride-trifluoroethylene copolymer films. <i>Scientific Reports</i> , 2014 , 4, 4772	4.9	126
304	Concurrent transition of ferroelectric and magnetic ordering near room temperature. <i>Nature Communications</i> , 2011 , 2, 567	17.4	124
303	Magnetotransport at domain walls in BiFeO ₃ . <i>Physical Review Letters</i> , 2012 , 108, 067203	7.4	120
302	Oxide interfaces: pathways to novel phenomena. <i>Materials Today</i> , 2012 , 15, 320-327	21.8	114
301	Ferroelastic domain switching dynamics under electrical and mechanical excitations. <i>Nature Communications</i> , 2014 , 5, 3801	17.4	110
300	Two-phonon coupling to the antiferromagnetic phase transition in multiferroic BiFeO ₃ . <i>Applied Physics Letters</i> , 2008 , 92, 022511	3.4	107
299	Effect of substrate-induced strains on the spontaneous polarization of epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2007 , 101, 114105	2.5	105
298	Domain wall geometry controls conduction in ferroelectrics. <i>Nano Letters</i> , 2012 , 12, 5524-31	11.5	103
297	Exploring topological defects in epitaxial BiFeO ₃ thin films. <i>ACS Nano</i> , 2011 , 5, 879-87	16.7	102
296	MICAtronics: A new platform for flexible X-tronics. <i>FlatChem</i> , 2017 , 3, 26-42	5.1	101
295	Epitaxial (001) BiFeO ₃ membranes with substantially reduced fatigue and leakage. <i>Applied Physics Letters</i> , 2008 , 92, 062910	3.4	100
294	Room temperature exchange bias and spin valves based on BiFeO ₃ /BrRuO ₃ /BrTiO ₃ /Bi (001) heterostructures. <i>Applied Physics Letters</i> , 2007 , 91, 172513	3.4	98
293	Van der Waals oxide heteroepitaxy. <i>Npj Quantum Materials</i> , 2017 , 2,	5	97

292	Strain control of domain-wall stability in epitaxial BiFeO ₃ (110) films. <i>Physical Review Letters</i> , 2007 , 99, 217601	7.4	96
291	Van der Waals heteroepitaxial AZO/NiO/AZO/muscovite (ANA/muscovite) transparent flexible memristor. <i>Nano Energy</i> , 2019 , 56, 322-329	17.1	93
290	Origin of metallic behavior in NiCo ₂ O ₄ ferrimagnet. <i>Scientific Reports</i> , 2015 , 5, 15201	4.9	89
289	Low voltage performance of epitaxial BiFeO ₃ films on Si substrates through lanthanum substitution. <i>Applied Physics Letters</i> , 2008 , 92, 102909	3.4	89
288	Flexible Multiferroic Bulk Heterojunction with Giant Magnetoelectric Coupling via van der Waals Epitaxy. <i>ACS Nano</i> , 2017 , 11, 6122-6130	16.7	88
287	Orthorhombic BiFeO ₃ . <i>Physical Review Letters</i> , 2012 , 109, 247606	7.4	87
286	van der Waal Epitaxy of Flexible and Transparent VO ₂ Film on Muscovite. <i>Chemistry of Materials</i> , 2016 , 28, 3914-3919	9.6	84
285	Tuning the competition between ferromagnetism and antiferromagnetism in a half-doped manganite through magnetoelectric coupling. <i>Physical Review Letters</i> , 2013 , 111, 127601	7.4	84
284	Heteroepitaxy of FeO/Muscovite: A New Perspective for Flexible Spintronics. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33794-33801	9.5	83
283	A nanoscale shape memory oxide. <i>Nature Communications</i> , 2013 , 4, 2768	17.4	83
282	Heteroepitaxially enhanced magnetic anisotropy in BaTiO ₃ /CoFe ₂ O ₄ nanostructures. <i>Applied Physics Letters</i> , 2007 , 90, 113113	3.4	83
281	Flexible Heteroepitaxy of CoFeO/Muscovite Bimorph with Large Magnetostriction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7297-7304	9.5	82
280	Atomic-scale evolution of local electronic structure across multiferroic domain walls. <i>Advanced Materials</i> , 2011 , 23, 1530-4	24	82
279	Adsorption-controlled molecular-beam epitaxial growth of BiFeO ₃ . <i>Applied Physics Letters</i> , 2007 , 91, 071922	3.4	80
278	Ferroelectric control of the conduction at the LaAlO ₃ /SrTiO ₃ heterointerface. <i>Advanced Materials</i> , 2013 , 25, 3357-64	24	78
277	Direct Observation of Capacitor Switching Using Planar Electrodes. <i>Advanced Functional Materials</i> , 2010 , 20, 3466-3475	15.6	76
276	Probing the role of single defects on the thermodynamics of electric-field induced phase transitions. <i>Physical Review Letters</i> , 2008 , 100, 155703	7.4	76
275	Possible absence of critical thickness and size effect in ultrathin perovskite ferroelectric films. <i>Nature Communications</i> , 2017 , 8, 15549	17.4	74

274	Single-domain multiferroic BiFeO ₃ films. <i>Nature Communications</i> , 2016 , 7, 12712	17.4	74
273	Atomically resolved mapping of polarization and electric fields across ferroelectric/oxide interfaces by Z-contrast imaging. <i>Advanced Materials</i> , 2011 , 23, 2474-9	24	72
272	Nanoscale control of phase variants in strain-engineered BiFeO ₃ . <i>Nano Letters</i> , 2011 , 11, 3346-54	11.5	70
271	Magnon sidebands and spin-charge coupling in bismuth ferrite probed by nonlinear optical spectroscopy. <i>Physical Review B</i> , 2009 , 79,	3.3	69
270	Local conduction at the BiFeO ₃ -CoFe ₂ O ₄ tubular oxide interface. <i>Advanced Materials</i> , 2012 , 24, 4564-8	11.5	68
269	Probing the evolution of antiferromagnetism in multiferroics. <i>Physical Review B</i> , 2010 , 81,	3.3	68
268	Van der Waals epitaxy of functional MoO ₂ film on mica for flexible electronics. <i>Applied Physics Letters</i> , 2016 , 108, 253104	3.4	68
267	Heteroepitaxial approach to explore charge dynamics across Au/BiVO ₄ interface for photoactivity enhancement. <i>Nano Energy</i> , 2015 , 15, 625-633	17.1	67
266	Intrinsic single-domain switching in ferroelectric materials on a nearly ideal surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20204-9	11.5	67
265	Flexible PbZr _{0.52} Ti _{0.48} O ₃ Capacitors with Giant Piezoelectric Response and Dielectric Tunability. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600542	6.4	66
264	A gate-free monolayer WSe pn diode. <i>Nature Communications</i> , 2018 , 9, 3143	17.4	66
263	Strain-driven phase boundaries in BiFeO ₃ thin films studied by atomic force microscopy and x-ray diffraction. <i>Physical Review B</i> , 2012 , 85,	3.3	66
262	Misorientation control and functionality design of nanopillars in self-assembled perovskite-spinel heteroepitaxial nanostructures. <i>ACS Nano</i> , 2011 , 5, 4118-22	16.7	66
261	Electromechanical coupling among edge dislocations, domain walls, and nanodomains in BiFeO ₃ revealed by unit-cell-wise strain and polarization maps. <i>Nano Letters</i> , 2013 , 13, 1410-5	11.5	65
260	High speed piezoresponse force microscopy: . <i>Applied Physics Letters</i> , 2008 , 93, 072905	3.4	65
259	Computer simulation of ferroelectric domain structures in epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2008 , 103, 094111	2.5	64
258	Deep data analysis of conductive phenomena on complex oxide interfaces: physics from data mining. <i>ACS Nano</i> , 2014 , 8, 6449-57	16.7	63
257	Mapping band alignment across complex oxide heterointerfaces. <i>Physical Review Letters</i> , 2012 , 109, 246807	11.5	63

256	Epitaxial integration of (0001) BiFeO ₃ with (0001) GaN. <i>Applied Physics Letters</i> , 2007 , 90, 172908	3.4	63
255	Oxide Heteroepitaxy for Flexible Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32401-32407	13.2	62
254	BiFeO ₃ Thin Films: A Playground for Exploring Electric-Field Control of Multifunctionalities. <i>Annual Review of Materials Research</i> , 2015 , 45, 249-275	12.8	60
253	Ultrathin limit and dead-layer effects in local polarization switching of BiFeO ₃ . <i>Physical Review B</i> , 2012 , 85,	3.3	60
252	Tunable photoelectrochemical performance of Au/BiFeO ₃ heterostructure. <i>Nanoscale</i> , 2016 , 8, 15795-8017	8.1	60
251	Photostriction of CH ₃ NH ₃ PbBr Perovskite Crystals. <i>Advanced Materials</i> , 2017 , 29, 1701789	24	59
250	Epitaxial photostriction-magnetostriction coupled self-assembled nanostructures. <i>ACS Nano</i> , 2012 , 6, 6952-9	16.7	59
249	Unraveling Deterministic Mesoscopic Polarization Switching Mechanisms: Spatially Resolved Studies of a Tilt Grain Boundary in Bismuth Ferrite. <i>Advanced Functional Materials</i> , 2009 , 19, 2053-2063	15.6	58
248	Ferroelectric domain wall pinning at a bicrystal grain boundary in bismuth ferrite. <i>Applied Physics Letters</i> , 2008 , 93, 142901	3.4	57
247	Orientation-dependent potential barriers in case of epitaxial PtBiFeO ₃ /BrRuO ₃ capacitors. <i>Applied Physics Letters</i> , 2009 , 94, 232902	3.4	56
246	Quantitative determination of anisotropic magnetoelectric coupling in BiFeO ₃ /CoFe ₂ O ₄ nanostructures. <i>Applied Physics Letters</i> , 2010 , 97, 052902	3.4	55
245	Nanoscale phase boundaries: a new twist to novel functionalities. <i>Nanoscale</i> , 2012 , 4, 6196-204	7.7	54
244	Ultrathin limit of exchange bias coupling at oxide multiferroic/ferromagnetic interfaces. <i>Advanced Materials</i> , 2013 , 25, 4739-45	24	51
243	Domain wall functionality in BiFeO ₃ . <i>Phase Transitions</i> , 2013 , 86, 53-66	1.3	50
242	Evidence of sharp and diffuse domain walls in BiFeO ₃ by means of unit-cell-wise strain and polarization maps obtained with high resolution scanning transmission electron microscopy. <i>Physical Review Letters</i> , 2012 , 109, 047601	7.4	50
241	Interface dipole between two metallic oxides caused by localized oxygen vacancies. <i>Physical Review B</i> , 2012 , 86,	3.3	50
240	Probing local ionic dynamics in functional oxides at the nanoscale. <i>Nano Letters</i> , 2013 , 13, 3455-62	11.5	49
239	Electrical control of multiferroic orderings in mixed-phase BiFeO ₃ films. <i>Advanced Materials</i> , 2012 , 24, 3070-5	24	49

238	+Capacitance-voltage characteristics of BiFeO ₃ /SrTiO ₃ /LaN heteroepitaxial structures. <i>Applied Physics Letters</i> , 2007 , 91, 022909	3-4	49
237	Atomic mechanism of polarization-controlled surface reconstruction in ferroelectric thin films. <i>Nature Communications</i> , 2016 , 7, 11318	17-4	48
236	Hidden lattice instabilities as origin of the conductive interface between insulating LaAlO ₃ and SrTiO ₃ . <i>Nature Communications</i> , 2016 , 7, 12773	17-4	48
235	Rewritable ferroelectric vortex pairs in BiFeO ₃ . <i>Npj Quantum Materials</i> , 2017 , 2,	5	48
234	Role of measurement voltage on hysteresis loop shape in Piezoresponse Force Microscopy. <i>Applied Physics Letters</i> , 2012 , 101, 192902	3-4	48
233	Spatially resolved mapping of ferroelectric switching behavior in self-assembled multiferroic nanostructures: strain, size, and interface effects. <i>Nanotechnology</i> , 2007 , 18, 405701	3-4	48
232	WO ₃ mesocrystal-assisted photoelectrochemical activity of BiVO ₄ . <i>NPG Asia Materials</i> , 2017 , 9, e357-e357.3	5-3	47
231	A Strain-Driven Antiferroelectric-to-Ferroelectric Phase Transition in La-Doped BiFeO Thin Films on Si. <i>Nano Letters</i> , 2017 , 17, 5823-5829	11-5	47
230	In situ TEM study of the Li-Au reaction in an electrochemical liquid cell. <i>Faraday Discussions</i> , 2014 , 176, 95-107	3-6	47
229	Strain Coupling of Conversion-type Fe O Thin Films for Lithium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7813-7816	16-4	46
228	Highly flexible, robust, stable and high efficiency perovskite solar cells enabled by van der Waals epitaxy on mica substrate. <i>Nano Energy</i> , 2019 , 60, 476-484	17-1	44
227	Observation of ferromagnetic resonance in SrRuO ₃ by the time-resolved magneto-optical Kerr effect. <i>Physical Review Letters</i> , 2009 , 102, 177601	7-4	44
226	Self-Assembled BiFeO ₃ -Fe ₂ O ₃ Vertical Heteroepitaxy for Visible Light Photoelectrochemistry. <i>Advanced Energy Materials</i> , 2016 , 6, 1600686	21-8	43
225	In Situ Study of Fe ₃ Pt-Fe ₂ O ₃ Core-Shell Nanoparticle Formation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14850-3	16-4	42
224	Deterministic optical control of room temperature multiferroicity in BiFeO thin films. <i>Nature Materials</i> , 2019 , 18, 580-587	27	41
223	Strong magnetic enhancement in self-assembled multiferroic-ferrimagnetic nanostructures. <i>Nanoscale</i> , 2013 , 5, 4449-53	7-7	41
222	Spin-charge-lattice coupling through resonant multimagnon excitations in multiferroic BiFeO ₃ . <i>Applied Physics Letters</i> , 2009 , 94, 161905	3-4	41
221	Epitaxial Multiferroic BiFeO ₃ Thin Films: Progress and Future Directions. <i>Ferroelectrics</i> , 2007 , 354, 167-176	17-6	41

220	Electricity generation based on vertically aligned PbZr _{0.2} Ti _{0.8} O ₃ nanowire arrays. <i>Nano Energy</i> , 2012 , 1, 424-428	17.1	40
219	Electrical modulation of the local conduction at oxide tubular interfaces. <i>ACS Nano</i> , 2013 , 7, 8627-33	16.7	39
218	Ultrafast photoinduced mechanical strain in epitaxial BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2012 , 101, 041902	3.4	39
217	Manipulate the Electronic and Magnetic States in NiCo O Films through Electric-Field-Induced Protonation at Elevated Temperature. <i>Advanced Materials</i> , 2019 , 31, e1900458	24	39
216	Space- and time-resolved mapping of ionic dynamic and electroresistive phenomena in lateral devices. <i>ACS Nano</i> , 2013 , 7, 6806-15	16.7	38
215	Emergent phenomena at multiferroic heterointerfaces. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 4856-71	3	38
214	Atomic-Scale Mechanisms of Defect-Induced Retention Failure in Ferroelectrics. <i>Nano Letters</i> , 2017 , 17, 3556-3562	11.5	36
213	Photostriction of strontium ruthenate. <i>Nature Communications</i> , 2017 , 8, 15018	17.4	36
212	In Situ Study of Spinel Ferrite Nanocrystal Growth Using Liquid Cell Transmission Electron Microscopy. <i>Chemistry of Materials</i> , 2015 , 27, 8146-8152	9.6	36
211	Direct observation of ferroelectric polarization-modulated band bending at oxide interfaces. <i>Applied Physics Letters</i> , 2012 , 100, 122903	3.4	36
210	Tailoring Magnetoelectric Coupling in BiFeO ₃ /La Sr MnO Heterostructure through the Interface Engineering. <i>Advanced Materials</i> , 2019 , 31, e1806335	24	35
209	Switching kinetics in epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2010 , 107, 084111	2.5	35
208	Superior photoelectrochemical activity of self-assembled NiWO ₄ /WO ₃ heteroepitaxy. <i>Nano Energy</i> , 2016 , 23, 153-160	17.1	35
207	Deterministic, Reversible, and Nonvolatile Low-Voltage Writing of Magnetic Domains in Epitaxial BaTiO ₃ /FeO Heterostructure. <i>ACS Nano</i> , 2018 , 12, 9558-9567	16.7	34
206	Controlling magnetoelectric coupling by nanoscale phase transformation in strain engineered bismuth ferrite. <i>Nanoscale</i> , 2012 , 4, 3175-83	7.7	34
205	Strain-driven phase transitions and associated dielectric/piezoelectric anomalies in BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2010 , 97, 152901	3.4	34
204	Thickness dependence of the anomalous Hall effect in thin films of the topological semimetal Co ₂ MnGa. <i>Physical Review B</i> , 2019 , 100,	3.3	33
203	Permanent ferroelectric retention of BiFeO ₃ mesocrystal. <i>Nature Communications</i> , 2016 , 7, 13199	17.4	33

202	Giant enhancement of ferroelectric retention in BiFeO ₃ mixed-phase boundary. <i>Advanced Materials</i> , 2014 , 26, 6335-40	24	33
201	Interface effects on the magnetoelectric properties of (001)-oriented Pb(Zr _{0.5} Ti _{0.5})O ₃ /CoFe ₂ O ₄ multilayer thin films. <i>Scripta Materialia</i> , 2008 , 59, 897-900	5.6	33
200	Revealing the flexoelectricity in the mixed-phase regions of epitaxial BiFeO ₃ thin films. <i>Scientific Reports</i> , 2015 , 5, 8091	4.9	32
199	Atomic-Scale Visualization of Polarization Pinning and Relaxation at Coherent BiFeO ₃ /LaAlO ₃ Interfaces. <i>Advanced Functional Materials</i> , 2014 , 24, 793-799	15.6	31
198	Strain modulated optical properties in BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2013 , 103, 181907	3.4	31
197	Interface control of surface photochemical reactivity in ultrathin epitaxial ferroelectric films. <i>Applied Physics Letters</i> , 2013 , 102, 182904	3.4	31
196	Stress-mediated magnetic anisotropy and magnetoelastic coupling in epitaxial multiferroic PbTiO ₃ -CoFe ₂ O ₄ nanostructures. <i>Applied Physics Letters</i> , 2013 , 102, 132905	3.4	30
195	Synthesis of epitaxial metal oxide nanocrystals via a phase separation approach. <i>ACS Nano</i> , 2010 , 4, 5139-46	14.6	30
194	Planar electrode piezoelectric force microscopy to study electric polarization switching in BiFeO ₃ . <i>Applied Physics Letters</i> , 2007 , 90, 202909	3.4	30
193	Complex strain evolution of polar and magnetic order in multiferroic BiFeO thin films. <i>Nature Communications</i> , 2018 , 9, 3764	17.4	30
192	In-situ TEM observation of Multilevel Storage Behavior in low power FeRAM device. <i>Nano Energy</i> , 2017 , 34, 103-110	17.1	29
191	van der Waals heteroepitaxy on muscovite. <i>Materials Chemistry and Physics</i> , 2019 , 234, 185-195	4.4	29
190	Misfit strain driven cation inter-diffusion across an epitaxial multiferroic thin film interface. <i>Journal of Applied Physics</i> , 2014 , 115, 054103	2.5	28
189	Unraveling the origins of electromechanical response in mixed-phase bismuth ferrite. <i>Physical Review B</i> , 2013 , 88,	3.3	28
188	Dynamics of Nanoscale Dendrite Formation in Solution Growth Revealed Through in Situ Liquid Cell Electron Microscopy. <i>Nano Letters</i> , 2018 , 18, 6427-6433	11.5	28
187	Domain growth dynamics in single-domain-like BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2009 , 94, 122908	3.4	27
186	Ultrasensitivity of self-powered wireless triboelectric vibration sensor for operating in underwater environment based on surface functionalization of rice husks. <i>Nano Energy</i> , 2019 , 60, 715-723	17.1	26
185	Non-volatile domain nucleation and growth in multiferroic BiFeO ₃ films. <i>Nanotechnology</i> , 2011 , 22, 254030	3.0	26

184	Wearable Gallium Oxide Solar-Blind Photodetectors on Muscovite Mica Having Ultrahigh Photoresponsivity and Detectivity with Added High-Temperature Functionalities. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2463-2470	4	25
183	Self-assembled vertical heteroepitaxial nanostructures: from growth to functionalities. <i>MRS Communications</i> , 2014 , 4, 31-44	2.7	25
182	Magnetic mesocrystal-assisted magnetoresistance in manganite. <i>Nano Letters</i> , 2014 , 14, 6073-9	11.5	24
181	Direct observation of rotatable uncompensated spins in the exchange bias system Co/CoO-MgO. <i>Nanoscale</i> , 2013 , 5, 10236-41	7.7	24
180	Structural study in highly compressed BiFeO ₃ epitaxial thin films on YAlO ₃ . <i>Journal of Applied Physics</i> , 2012 , 112, 052002	2.5	24
179	Epitaxial Magnetic Oxide Nanocrystals Via Phase Decomposition of Bismuth Perovskite Precursors. <i>Advanced Functional Materials</i> , 2012 , 22, 5224-5230	15.6	24
178	Phenomenological analysis of domain width in rhombohedral BiFeO ₃ films. <i>Physical Review B</i> , 2009 , 80,	3.3	24
177	Ferromagnetic enhancement of CE-type spin ordering in (Pr,Ca)MnO ₃ . <i>Physical Review Letters</i> , 2011 , 106, 186404	7.4	24
176	Scalable van der Waals Heterojunctions for High-Performance Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36181-36188	9.5	23
175	Constraining Data Mining with Physical Models: Voltage- and Oxygen Pressure-Dependent Transport in Multiferroic Nanostructures. <i>Nano Letters</i> , 2015 , 15, 6650-7	11.5	23
174	Complex oxide-noble metal conjugated nanoparticles. <i>Advanced Materials</i> , 2013 , 25, 2040-4	24	23
173	Taper PbZr(0.2)Ti(0.8)O ₃ nanowire arrays: from controlled growth by pulsed laser deposition to piezopotential measurements. <i>ACS Nano</i> , 2012 , 6, 2826-32	16.7	23
172	Linear and nonlinear optical properties of multifunctional PbVO ₃ thin films. <i>Applied Physics Letters</i> , 2008 , 92, 231915	3.4	23
171	Oxide Heteroepitaxy-Based Flexible Ferroelectric Transistor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25882-25890	9.5	22
170	Field enhancement of electronic conductance at ferroelectric domain walls. <i>Nature Communications</i> , 2017 , 8, 1318	17.4	22
169	Large magnetoresistance in magnetically coupled SrRuO ₃ /CoFeO ₃ self-assembled nanostructures. <i>Advanced Materials</i> , 2013 , 25, 4753-9	24	21
168	Domain relaxation dynamics in epitaxial BiFeO ₃ films: Role of surface charges. <i>Journal of Applied Physics</i> , 2012 , 112, 052017	2.5	21
167	Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. <i>Acta Materialia</i> , 2018 , 145, 488-495	8.4	20

- 166 Periodic elastic nanodomains in ultrathin tetragonal-like BiFeO₃ films. *Physical Review B*, **2013**, 88, 3.3 20
- 165 Graphene-Transition Metal Dichalcogenide Heterojunctions for Scalable and Low-Power Complementary Integrated Circuits. *ACS Nano*, **2020**, 14, 985-992 16.7 20
- 164 Tuning the magnetic properties of self-assembled BiFeO₃-CoFe₂O₄ heteroepitaxy by magneto-structural coupling. *Nanoscale*, **2016**, 8, 8847-54 7.7 20
- 163 The preparation, and structural and multiferroic properties of B-site ordered double-perovskite Bi₂FeMnO₆. *Journal of Materials Chemistry C*, **2017**, 5, 5494-5500 7.1 19
- 162 Observing topotactic phase transformation and resistive switching behaviors in low power SrCoOx memristor. *Nano Energy*, **2020**, 72, 104683 17.1 19
- 161 Transparent Antiradiative Ferroelectric Heterostructure Based on Flexible Oxide Heteroepitaxy. *ACS Applied Materials & Interfaces*, **2018**, 10, 30574-30580 9.5 19
- 160 Manipulating magnetoelectric energy landscape in multiferroics. *Nature Communications*, **2020**, 11, 28361 7.4 18
- 159 Direct spectroscopic evidence of charge reversal at the Pb(Zr_{0.2}Ti_{0.8})O₃/La_{0.7}Sr_{0.3}MnO₃ heterointerface. *Physical Review B*, **2011**, 83, 3.3 18
- 158 Development of oxide heteroepitaxy for soft technology. *Journal of Materials Chemistry C*, **2018**, 6, 61027-6117 7.1 18
- 157 Atomic Visualization of the Phase Transition in Highly Strained BiFeO₃ Thin Films with Excellent Pyroelectric Response. *Nano Energy*, **2015**, 17, 72-81 17.1 17
- 156 Giant Photoresponse in Quantized SrRuO₃ Monolayer at Oxide Interfaces. *ACS Photonics*, **2018**, 5, 1041-1049 10.9 17
- 155 Characterization of domain distributions by second harmonic generation in ferroelectrics. *Npj Computational Materials*, **2018**, 4, 10.9 17
- 154 Orientation-tuning in self-assembled heterostructures induced by a buffer layer. *Nanoscale*, **2014**, 6, 5126-31 7.7 17
- 153 Domain pattern and piezoelectric response across polymorphic phase transition in strained bismuth ferrite films. *Applied Physics Letters*, **2010**, 97, 242906 3.4 17
- 152 Recent Advances in Electromechanical Imaging on the Nanometer Scale: Polarization Dynamics in Ferroelectrics, Biopolymers, and Liquid Imaging. *Japanese Journal of Applied Physics*, **2007**, 46, 5674-5685 1.4 17
- 151 Ferroelectric domain triggers the charge modulation in semiconductors (invited). *Journal of Applied Physics*, **2014**, 116, 066817 2.5 16
- 150 Conduction control at ferroic domain walls via external stimuli. *Nanoscale*, **2014**, 6, 10524-9 7.7 16
- 149 Tuning the functionalities of a mesocrystal via structural coupling. *Scientific Reports*, **2015**, 5, 12073 4.9 16

148	Flexible Heteroepitaxy Photoelectrode for Photo-electrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3900-3907	6.1	15
147	Design of magnetoelectric coupling in a self-assembled epitaxial nanocomposite via chemical interaction. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 811-815	7.1	15
146	High-frequency electromechanical imaging of ferroelectrics in a liquid environment. <i>ACS Nano</i> , 2012 , 6, 5559-65	16.7	15
145	Anomalous Electronic Anisotropy Triggered by Ferroelastic Coupling in Multiferroic Heterostructures. <i>Advanced Materials</i> , 2016 , 28, 876-83	24	15
144	Topological Hall Effect in Single Thick SrRuO ₃ Layers Induced by Defect Engineering. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000184	6.4	15
143	Enhancing the magnetic moment of ferrimagnetic NiCo ₂ O ₄ via ion irradiation driven oxygen vacancies. <i>APL Materials</i> , 2018 , 6, 066109	5.7	15
142	In-situ Multimodal Imaging and Spectroscopy of Mg Electrodeposition at Electrode-Electrolyte Interfaces. <i>Scientific Reports</i> , 2017 , 7, 42527	4.9	14
141	Self-formed conductive nanofilaments in (Bi, Mn)O for ultralow-power memory devices. <i>Nano Energy</i> , 2015 , 13, 283-290	17.1	14
140	A Metal-Insulator Transition of the Buried MnO Monolayer in Complex Oxide Heterostructure. <i>Advanced Materials</i> , 2016 , 28, 9142-9151	24	14
139	Tuning electronic transport in a self-assembled nanocomposite. <i>ACS Nano</i> , 2014 , 8, 6242-9	16.7	14
138	Nanoscale characterization of emergent phenomena in multiferroics. <i>Current Opinion in Solid State and Materials Science</i> , 2012 , 16, 216-226	12	14
137	Spatial Control of Cell-Nanosurface Interactions by Tantalum Oxide Nanodots for Improved Implant Geometry. <i>PLoS ONE</i> , 2016 , 11, e0158425	3.7	14
136	Strain-Mediated Inverse Photoresistivity in SrRuO ₃ /La _{0.7} Sr _{0.3} MnO ₃ Superlattices. <i>Advanced Functional Materials</i> , 2016 , 26, 729-737	15.6	14
135	Photovoltaic and flexible deep ultraviolet wavelength detector based on novel InGaO/muscovite heteroepitaxy. <i>Scientific Reports</i> , 2020 , 10, 16098	4.9	13
134	Pulsed laser deposition of complex oxide heteroepitaxy. <i>Chinese Journal of Physics</i> , 2019 , 60, 481-501	3.5	12
133	Mapping strain modulated electronic structure perturbations in mixed phase bismuth ferrite thin films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1835-1845	7.1	12
132	Mechanically controllable nonlinear dielectrics. <i>Science Advances</i> , 2020 , 6, eaaz3180	14.3	12
131	Discovery of a magnetic conductive interface in PbZrTiO ₃ /SrTiO ₃ heterostructures. <i>Nature Communications</i> , 2018 , 9, 685	17.4	12

130	Conductive tail-to-tail domain walls in epitaxial BiFeO ₃ films. <i>Applied Physics Letters</i> , 2018 , 113, 082904	3.4	12
129	Probing local electromechanical effects in highly conductive electrolytes. <i>ACS Nano</i> , 2012 , 6, 10139-46	16.7	12
128	Proton-Mediated Phase Control in Flexible and Transparent Mott Transistors. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900742	6.4	12
127	Mechanical Modulation of Colossal Magnetoresistance in Flexible Epitaxial Perovskite Manganite. <i>Advanced Functional Materials</i> , 2020 , 30, 2004597	15.6	12
126	Energy Band Gap Modulation in Nd-Doped BiFeO/SrRuO Heteroepitaxy for Visible Light Photoelectrochemical Activity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1655-1664	9.5	12
125	Ultrafast Giant Photostriction of Epitaxial Strontium Iridate Film with Superior Endurance. <i>Nano Letters</i> , 2018 , 18, 7742-7748	11.5	12
124	A Nanostructuring Method to Decouple Electrical and Thermal Transport through the Formation of Electrically Triggered Conductive Nanofilaments. <i>Advanced Materials</i> , 2018 , 30, e1705385	24	12
123	Heteroepitaxy of Co-Based Heusler Compound/Muscovite for Flexible Spintronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35162-35168	9.5	11
122	Unexpected Giant Microwave Conductivity in a Nominally Silent BiFeO Domain Wall. <i>Advanced Materials</i> , 2020 , 32, e1905132	24	11
121	Nanochips of Tantalum Oxide Nanodots as artificial-microenvironments for monitoring Ovarian cancer progressiveness. <i>Scientific Reports</i> , 2016 , 6, 31998	4.9	11
120	Tuning phase stability of complex oxide nanocrystals via conjugation. <i>Nano Letters</i> , 2014 , 14, 3314-20	11.5	11
119	Self-assembled perovskite-spinel heterostructure on a highly distorted substrate. <i>Applied Physics Letters</i> , 2013 , 102, 111903	3.4	11
118	Microstructure evolution with composition ratio in self-assembled WO ₃ BiVO ₄ hetero nanostructures for water splitting. <i>Journal of Materials Research</i> , 2017 , 32, 2790-2799	2.5	11
117	Thickness dependence of transport behaviors in SrRuO ₃ /SrTiO ₃ superlattices. <i>Physical Review Materials</i> , 2020 , 4,	3.2	11
116	Control of the Metal-Insulator Transition at Complex Oxide Heterointerfaces through Visible Light. <i>Advanced Materials</i> , 2016 , 28, 764-70	24	11
115	Nondestructive Mapping of Long-Range Dislocation Strain Fields in an Epitaxial Complex Metal Oxide. <i>Nano Letters</i> , 2019 , 19, 1445-1450	11.5	10
114	Enhanced Magnetocaloric Effect Driven by Interfacial Magnetic Coupling in Self-Assembled Mn ₃ O ₄ -La(0.7)Sr(0.3)MnO ₃ Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26504-11	9.5	10
113	Enhanced Structural and Magnetic Coupling in a Mesocrystal-Assisted Nanocomposite. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1104-11	9.5	10

112	Controllable electrical conduction at complex oxide interfaces. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 478-500	2.5	10
111	Thickness dependence of La _{0.7} Sr _{0.3} MnO ₃ /PbZr _{0.2} Ti _{0.8} O ₃ magnetoelectric interfaces. <i>Applied Physics Letters</i> , 2015 , 107, 141603	3.4	10
110	Distribution of electronic reconstruction at the n-type LaAlO ₃ /SrTiO ₃ interface revealed by hard x-ray photoemission spectroscopy. <i>Applied Physics Letters</i> , 2011 , 99, 262101	3.4	10
109	n-ZnO/LaAlO ₃ /p-Si heterojunction for visible-blind UV detection. <i>Optics Letters</i> , 2012 , 37, 1112-4	3	10
108	Observation of a three-dimensional quasi-long-range electronic supermodulation in YBa ₂ Cu ₃ O(7-x)/La _{0.7} Ca _{0.3} MnO ₃ heterostructures. <i>Nature Communications</i> , 2016 , 7, 10852	17.4	10
107	Piezoelectric and piezomagnetic force microscopies of multiferroic BiFeO ₃ -LiMn ₂ O ₄ heterostructures. <i>Journal of Applied Physics</i> , 2014 , 116, 066805	2.5	9
106	Spin and phonon anomalies in epitaxial self-assembled CoFe ₂ O ₄ -BaTiO ₃ multiferroic nanostructures. <i>Applied Physics Letters</i> , 2014 , 104, 252905	3.4	9
105	Multifunctionalities driven by ferroic domains. <i>Journal of Applied Physics</i> , 2014 , 116, 066801	2.5	9
104	Investigation of nanodomain pattern and piezoelectric behavior of mixed phases in epitaxial BiFeO ₃ films. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 3063-3071	6	9
103	Magnetism-induced ferroelectric polarization in the c-axis-oriented orthorhombic HoMnO ₃ thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 103923	2.5	9
102	Magnetoelectric complex-oxide heterostructures. <i>Philosophical Magazine Letters</i> , 2007 , 87, 155-164	1	9
101	Effects of pillar size modulation on the magneto-structural coupling in self-assembled BiFeO ₃ /CoFe ₂ O ₄ heteroepitaxy. <i>CrystEngComm</i> , 2020 , 22, 435-440	3.3	9
100	Direct observation of weakened interface clamping effect enabled ferroelastic domain switching. <i>Acta Materialia</i> , 2019 , 171, 184-189	8.4	8
99	Mechanically tunable exchange coupling of Co/CoO bilayers on flexible muscovite substrates. <i>Nanoscale</i> , 2020 , 12, 3284-3291	7.7	8
98	Atomically Resolved Electronic States and Correlated Magnetic Order at Termination Engineered Complex Oxide Heterointerfaces. <i>ACS Nano</i> , 2018 , 12, 1089-1095	16.7	8
97	Selective interlayer ferromagnetic coupling between the Cu spins in YBa ₂ Cu ₃ O _{7-x} grown on top of La _{0.7} Ca _{0.3} MnO ₃ . <i>Scientific Reports</i> , 2015 , 5, 16690	4.9	8
96	Selective A- or B-site single termination on surfaces of layered oxide SrLaAlO ₄ . <i>Applied Physics Letters</i> , 2013 , 102, 051603	3.4	8
95	van der Waals oxide heteroepitaxy for soft transparent electronics. <i>Nanoscale</i> , 2020 , 12, 18523-18544	7.7	8

94	Structural Anisotropy Determining the Oxygen Evolution Mechanism of Strongly Correlated Perovskite Nickelate Electrocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4262-4270	8.3	8
93	One-Step Surface-Plasma-Induced Exfoliation of the Graphite/WS ₂ Bilayer into Homogeneous Two-Dimensional Graphene/WS ₂ Nanosheet Composites as Catalysts for the Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5143-5154	6.1	8
92	Mesocrystal-embedded functional oxide systems. <i>MRS Communications</i> , 2016 , 6, 167-181	2.7	8
91	Electrically enhanced magnetization in highly strained BiFeO ₃ films. <i>NPG Asia Materials</i> , 2016 , 8, e269-e269	2.6	8
90	Strain engineering of optical properties in transparent VO/muscovite heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 8908-8915	3.6	8
89	Epitaxial Ytria-Stabilized Zirconia on Muscovite for Flexible Transparent Ionic Conductors. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6890-6896	5.6	8
88	High-stability transparent flexible energy storage based on PbZrO ₃ /muscovite heterostructure. <i>Nano Energy</i> , 2021 , 87, 106149	17.1	8
87	A top-down strategy for amorphization of hydroxyl compounds for electrocatalytic oxygen evolution.. <i>Nature Communications</i> , 2022 , 13, 1187	17.4	8
86	Magnetic and Magnetodielectric Properties of Epitaxial Iron Vanadate Thin Films. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600295	6.4	7
85	Development of magnetoelectric nanocomposite for soft technology. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 234006	3	7
84	Tuning the formation and functionalities of ultrafine CoFe ₂ O ₄ nanocrystals via interfacial coherent strain. <i>Nanoscale</i> , 2013 , 5, 6219-23	7.7	7
83	Topological control of nitric oxide secretion by tantalum oxide nanodot arrays. <i>Journal of Nanobiotechnology</i> , 2015 , 13, 79	9.4	7
82	Properties of Ba(Mg _{1/3} Ta _{2/3})O ₃ Thin Films Prepared by Pulsed-Laser Deposition. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 7428-7431	1.4	7
81	Highly efficient flexible organic light-emitting diodes based on a high-temperature durable mica substrate. <i>Organic Electronics</i> , 2019 , 75, 105442	3.5	6
80	Scalable T-Gate Aligned Gr _{1.5} WS ₂ Gr Radio-Frequency Field-Effect Transistors. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3898-3905	4	6
79	Tetragonal BiFeO ₃ on yttria-stabilized zirconia. <i>APL Materials</i> , 2015 , 3, 116104	5.7	6
78	Anisotropic strain, magnetic properties, and lattice dynamics in self-assembled multiferroic CoFe ₂ O ₄ -PbTiO ₃ nanostructures. <i>Journal of Applied Physics</i> , 2014 , 115, 134317	2.5	6
77	Dynamic magnetic interaction in La _{2/3} Sr _{1/3} MnO ₃ /BiFeO ₃ heterostructure. <i>Applied Physics Letters</i> , 2014 , 105, 112406	3.4	6

76	Semipolar (11bar 2bar 2) ZnO thin films grown on LaAlO ₃ -buffered LSAT (112) single crystals by pulsed laser deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 293-296	2.5	6
75	Effective thermal boundary resistance from thermal decoupling of magnons and phonons in SrRuO ₃ thin films. <i>Physical Review B</i> , 2010 , 82,	3.3	6
74	Electron paramagnetic resonance probed oxygen deficiency in SrTiO ₃ with different cap layers. <i>Journal of Applied Physics</i> , 2012 , 112, 123720	2.5	6
73	Phase evolution of magnetite nanocrystals on oxide supports via template-free bismuth ferrite precursor approach. <i>Journal of Applied Physics</i> , 2012 , 112, 104321	2.5	6
72	Dynamical Strain-Driven Phase Separation in Flexible CoFeO/CoO Exchange Coupling System. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46874-46882	9.5	6
71	Giant Resistivity Change of Transparent ZnO/Muscovite Heteroepitaxy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21818-21826	9.5	6
70	Electrostatic potential and valence modulation in LaSrMnO thin films. <i>Scientific Reports</i> , 2018 , 8, 14313	4.9	6
69	Transparent Flexible Heteroepitaxy of NiO Coated AZO Nanorods Arrays on Muscovites for Enhanced Energy Storage Application. <i>Small</i> , 2020 , 16, e2000020	11	5
68	Atomic Heterointerfaces and Electrical Transportation Properties in Self-Assembled LaNiO ₃ /NiO Heteroepitaxy. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701202	4.6	5
67	Epitaxial integration of a nanoscale BiFeO ₃ phase boundary with silicon. <i>Nanoscale</i> , 2016 , 8, 1322-6	7.7	5
66	Electric Field Writing of Ferroelectric Nano-Domains Near 71° Domain Walls with Switchable Interfacial Conductivity. <i>Annalen Der Physik</i> , 2018 , 530, 1800130	2.6	5
65	Spin filtering of a termination-controlled LSMO/Alq ₃ heterojunction for an organic spin valve. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9128-9137	7.1	5
64	Role of indium tin oxide electrode on the microstructure of self-assembled WO ₃ -BiVO ₄ hetero nanostructures. <i>Journal of Applied Physics</i> , 2017 , 122, 175301	2.5	5
63	Self-Assembled Epitaxial Core-Shell Nanocrystals with Tunable Magnetic Anisotropy. <i>Small</i> , 2015 , 11, 4117-22	11	5
62	Imaging magnetic and ferroelectric domains and interfacial spins in magnetoelectric La _{0.7} Sr _{0.3} MnO ₃ /PbZr _{0.2} Ti _{0.8} O ₃ heterostructures. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 504003 ¹⁸	1.8	5
61	Effect of processing kinetics on the structure of ferromagnetic-ferroelectric-ferromagnetic interfaces. <i>Journal of Applied Physics</i> , 2012 , 112, 104102	2.5	5
60	Tunable disorder and localization in the rare-earth nickelates. <i>Physical Review Materials</i> , 2019 , 3,	3.2	5
59	Self-Assembled Ferroelectric Nanoarray. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2205-2210	9.5	5

58	Antiferroelectric Anisotropy of Epitaxial PbHfO ₃ Films for Flexible Energy Storage. <i>Advanced Functional Materials</i> , 2021 , 31, 2105060	15.6	5
57	Electrical polarization induced by atomically engineered compositional gradient in complex oxide solid solution. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	4
56	Microstructure evolution determined by the crystalline phases competition in self-assembled WO ₃ -BiVO ₄ hetero nanostructures. <i>Journal of Applied Physics</i> , 2018 , 123, 085305	2.5	4
55	Dry lubrication of friction on ferroelectric BiFeO ₃ film. <i>Applied Surface Science</i> , 2018 , 457, 797-803	6.7	4
54	Enhanced Ferroelectric Functionality in Flexible Lead Zirconate Titanate Films with In Situ Substrate-Clamping Compensation. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900428	6.4	4
53	Real time imaging of two-dimensional iron oxide spherulite nanostructure formation. <i>Nano Research</i> , 2019 , 12, 2889-2893	10	4
52	Magnetic-coupled phase anomaly in mixed-phase BiFeO ₃ thin films. <i>APL Materials</i> , 2017 , 5, 086112	5.7	4
51	Spontaneous orientation-tuning driven by the strain variation in self-assembled ZnO-SrRuO ₃ heteroepitaxy. <i>Applied Physics Letters</i> , 2015 , 107, 191902	3.4	4
50	Defects in semipolar (1122) ZnO grown on (112) LaAlO ₃ /(La,Sr)(Al,Ta)O ₃ substrate by pulsed laser deposition. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 125801	1.8	4
49	Correlation between nanoscale and nanosecond resolved ferroelectric domain dynamics and local mechanical compliance. <i>Journal of Applied Physics</i> , 2011 , 109, 091607	2.5	4
48	Low-Temperature Deposition of Pb(Zr,Ti)O ₃ Thin Films on Si Substrates Using Ba(Mg _{1/3} Ta _{2/3})O ₃ as Buffer Layer. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 5409-5413	1.4	4
47	Flexible Epsilon Iron Oxide Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17006-17012	9.5	4
46	Generation and coherent control of terahertz acoustic phonons in superlattices of perovskite oxides. <i>New Journal of Physics</i> , 2021 , 23, 053009	2.9	4
45	Crossover between superconductivity and magnetism in SrRuO ₃ mesocrystal embedded YBaCuO heterostructures. <i>Nanoscale</i> , 2016 , 8, 18454-18460	7.7	3
44	Epitaxial NiO nanocrystals: a dimensional analysis. <i>MRS Communications</i> , 2013 , 3, 107-111	2.7	3
43	Ultrafast Dynamics of BiFeO ₃ Thin Films Studied by Dual-Color Femtosecond Spectroscopy. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011 , 24, 731-734	1.5	3
42	Low Temperature Process for Synthesis of (100) Textured Pb(Zr _{0.48} Ti _{0.52})O ₃ Thin Films on Si Substrate by Laser Lift-Off Transferring Technique. <i>Integrated Ferroelectrics</i> , 2003 , 57, 1233-1240	0.8	3
41	Characteristics of Ba(Mg _{1/3} Ta _{2/3})O ₃ thin films prepared by pulsed laser deposition process and their effect on the growth of Pb(Zr _{1-x} Ti _x)O ₃ thin films. <i>Journal of Applied Physics</i> , 2004 , 96, 5701-5705	2.5	3

40	Low-temperature laser processes for synthesizing (100)-textured Pb(Zr,Ti)O ₃ thin films on Si substrate. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 1059-1063	2.6	3
39	Flexible transparent heteroepitaxial conducting oxide with mobility exceeding 100 cm ² V ⁻¹ s ⁻¹ at room temperature. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	3
38	Anisotropic superconductivity induced by periodic multiferroic domain patterns. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	3
37	The microstructure and ferroelectric properties of PbZr _{0.52} Ti _{0.48} O ₃ films on mica substrates. <i>Ceramics International</i> , 2021 , 47, 9252-9257	5.1	3
36	Atomic-scale mechanism of internal structural relaxation screening at polar interfaces. <i>Physical Review B</i> , 2018 , 97,	3.3	3
35	The Effect of Tensile Strain on Optical Anisotropy and Exciton of ϵ -Plane ZnO. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-8	1.8	2
34	Emerging Multiferroic Memories 2014 , 103-166		2
33	Effect of growth temperature on a-plane ZnO formation on r-plane sapphire. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011 , 29, 03A110	2.9	2
32	MICROWAVE PROPERTIES OF BST AND BST/BMT THIN FILMS GROWN ON SAPPHIRE SUBSTRATE BY EVANESCENT MICROWAVE PROBE. <i>Integrated Ferroelectrics</i> , 2005 , 77, 45-50	0.8	2
31	Atomic structure and properties of a perovskite/spinel (111) interface. <i>Physical Review B</i> , 2020 , 102,	3.3	2
30	Flexible BiVO ₄ /WO ₃ /ITO/Muscovite Heterostructure for Visible-Light Photoelectrochemical Photoelectrode. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21186-21193	9.5	2
29	Dislocation-induced large local polarization inhomogeneity of ferroelectric materials. <i>Scripta Materialia</i> , 2021 , 194, 113624	5.6	2
28	Antiferromagnetic Interfacial Coupling and Giant Magnetic Hysteresis in LaCaMnO-SrRuO Superlattices. <i>ACS Omega</i> , 2018 , 3, 14266-14273	3.9	2
27	Characteristics of Pb(Zr, Ti)O ₃ Thin Films Deposited on Pt(Si) at Low Substrate Temperature by Using Ba(Mg _{1/3} Ta _{2/3})O ₃ as Buffer Layer. <i>Integrated Ferroelectrics</i> , 2004 , 67, 3-12	0.8	1
26	Self-assembled gold nanostructures in complex oxide thin films. <i>Materials Characterization</i> , 2020 , 159, 110069	3.9	1
25	Remote growth of oxide heteroepitaxy through MoS ₂ . <i>APL Materials</i> , 2021 , 9, 051115	5.7	1
24	Functional Oxide Thin Films and Nanostructures: Growth, Interface, and Applications. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-2	3.2	1
23	Tunable complex magnetic states of epitaxial core-shell metal oxide nanocrystals fabricated by the phase decomposition method. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 275001	3	1

22	Advances in strain engineering on oxide heteroepitaxy. <i>Matter</i> , 2021 , 4, 2117-2119	12.7	1
21	Evidence for largest room temperature magnetic signal from Co ²⁺ in antiphase-free & fully inverted CoFe ₂ O ₄ in multiferroic-ferrimagnetic BiFeO ₃ -CoFe ₂ O ₄ nanopillar thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 530, 167940	2.8	1
20	Negatively Charged In-Plane and Out-Of-Plane Domain Walls with Oxygen-Vacancy Agglomerations in a Ca-Doped Bismuth-Ferrite Thin Film. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 4498-4508	4	1
19	S incorporated RuO ₂ -based nanorings for active and stable water oxidation in acid. <i>Nano Research</i> , 2021 , 14, 1000-1008	10	0
18	Piezoresponse force microscopy imaging and its correlation with cantilever spring constant and frequency. <i>Journal of Applied Physics</i> , 2020 , 128, 084101	2.5	0
17	Fabrication of Large-Scale High-Mobility Flexible Transparent Zinc Oxide Single Crystal Wafers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18991-18998	9.5	0
16	Flexoelectric Domain Walls Originated from Structural Phase Transition in Epitaxial BiVO Films.. <i>Small</i> , 2022 , e2107540	11	0
15	Single-Phase Type-I Multiferroics. <i>Series in Materials Science and Engineering</i> , 2016 , 33-65		
14	Thermoelectrics: A Nanostructuring Method to Decouple Electrical and Thermal Transport through the Formation of Electrically Triggered Conductive Nanofilaments (Adv. Mater. 28/2018). <i>Advanced Materials</i> , 2018 , 30, 1870243	24	
13	Strain Coupling During Lithiation of a Fe ₃ O ₄ /SrTiO ₃ Epitaxial Thin Film. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1436-1437	0.5	
12	Partial Ferroelastic Domain Mediated Ferroelectric Domain Switching. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1624-1625	0.5	
11	Nanosession: Ferroelectric Interfaces 2013 , 399-408		
10	Pulsed Laser Deposited Ba(Mg _{1/3} Ta _{2/3})O ₃ Microwave Dielectric Thin Films. <i>Integrated Ferroelectrics</i> , 2003 , 55, 915-922	0.8	
9	Pulsed Laser Deposited Ba(Mg _{1/3} Ta _{2/3})O ₃ Microwave Dielectric Thin Films. <i>Integrated Ferroelectrics</i> , 2003 , 55, 887-894	0.8	
8	Growth Behavior of (Pr _{2/3} Ca _{1/3})MnO ₃ Layer and the Buffering Effect on Pb(Zr, Ti)O ₃ Thin Films. <i>Integrated Ferroelectrics</i> , 2004 , 67, 31-40	0.8	
7	Revealing a metastable cubic phase in CoFe ₂ O ₄ /SrTiO ₃ three-dimensional network heteroepitaxial nanostructure. <i>Journal of Applied Physics</i> , 2020 , 128, 225303	2.5	
6	Observation of oxygen pyramid tilting induced polarization rotation in strained BiFeO ₃ thin film. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2828-2834	3.8	
5	Atomic-environment-dependent thickness of ferroelastic domain walls near dislocations. <i>Acta Materialia</i> , 2020 , 188, 635-640	8.4	

- 4 Properties of stress-induced super tetragonal phase in epitaxial BiFeO₃ thin film. *Applied Physics Letters*, **2021**, 118, 242903 3.4
- 3 Depth-dependent atomic valence determination by synchrotron techniques. *Journal of Synchrotron Radiation*, **2018**, 25, 1711-1718 2.4
- 2 The superparaelectric battery. *Science*, **2021**, 374, 33-34 33.3
- 1 Atomically resolved interlayer electronic states in complex oxides by using cross-sectional scanning tunneling microscopy. *Progress in Surface Science*, **2022**, 100662 6.6